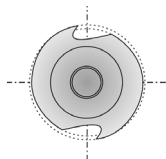
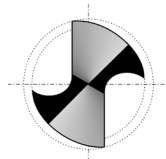


# Drill Bits

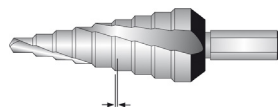
**101701****101701T****101701E****101702T**

## Split Point Step Drills

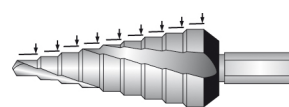
The spiral flutes of RUKO high-performance step drills are CBN-ground from the solid hardened form. Because CBN (cubical boron nitride) is a much harder abrasive than even silicon carbide or corundum, a better and sharper cutting edge is achieved without burrs. Because of this higher dimensional precision, the drills will last considerably longer while maintaining precise process tolerances. Drill bits are available in High Speed Steel, Cobalt 5 alloy High Speed Steel and Titanium Nitride-coated High Speed Steel. HSS-Co5 bits are the best choice for cutting stainless steels. The added titanium nitride coating increases the surface hardness to approximately 2300 HV and the heat resistance to 1100°F (600°C).

Radially adjusted relief  
produced by CBN grindingCBN-ground bit with  
split point DIN 1412C

CBN-ground flute



Axial relief produced by CBN grinding



CBN-ground relief angle

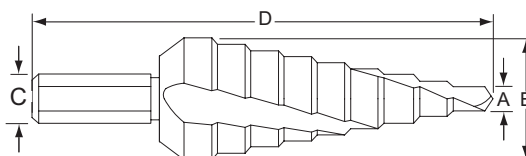
## Features

What makes these step drills special?

- CBN-ground flutes without burrs mean a superior cutting edge and longer tool life.
- Each step has a radially adjusted relief produced by CBN grinding, relating directly to the diameter of the step, so the cutting edge is always the highest point of the diameter.
- Each step is axially CBN relief-ground, meaning the cutting edge is also the highest point of the axial cutting axis.
- The cutting edge of each step has relief angle, meaning the cutting edge is also the highest point in advance direction.
- The CBN-ground point ensures centering and spot-drilling, even in thin-walled material.
- Point Cut: split point DIN 1412 C
- Point angle: 118°
- Step angle: 90°
- Right-hand cutting

## Self-Starting Step Drill Bits

| Fractional | Part #<br>High Speed<br>Steel | Pcs<br>/Pk | Price   | Part #<br>Titanium<br>Coated | Pcs<br>/Pk | Price   | Part #<br>Cobalt 5      | Pcs<br>/Pk | Price   | Drill<br>Size | Steps                                   | Min Drill<br>Size<br>A (in.) | Max Drill<br>Size<br>B (in.) | Shank<br>Diameter<br>C (in.) | Overall<br>Length<br>D (in.) |
|------------|-------------------------------|------------|---------|------------------------------|------------|---------|-------------------------|------------|---------|---------------|---|------------------------------|------------------------------|------------------------------|------------------------------|
|            | <a href="#">101701</a>        | 1          | \$20.50 | <a href="#">101701T</a>      | 1          | \$34.50 | <a href="#">101701E</a> | 1          | \$29.00 | 1             | 3/16" to 1/2" in 1/16" increments       | 3/16                         | 1/2                          | 1/4                          | 3-1/8                        |
|            | <a href="#">101702</a>        | 1          | \$24.00 | <a href="#">101702T</a>      | 1          | \$37.50 | <a href="#">101702E</a> | 1          | \$33.50 | 2             | 1/8" to 1/2" in 1/32" increments        | 1/8                          | 1/2                          | 1/4                          | 2-7/8                        |
|            | <a href="#">101703</a>        | 1          | \$29.50 | <a href="#">101703T</a>      | 1          | \$47.00 | <a href="#">101703E</a> | 1          | \$41.00 | 3             | 1/4" to 3/4" in 1/16" increments        | 1/4                          | 3/4                          | 3/8                          | 2-7/8                        |
|            | <a href="#">101704</a>        | 1          | \$40.00 | <a href="#">101704T</a>      | 1          | \$53.00 | <a href="#">101704E</a> | 1          | \$46.00 | 4             | 3/16" to 7/8" in 1/16" increments       | 3/16                         | 7/8                          | 3/8                          | 3-1/4                        |
|            | <a href="#">101705</a>        | 1          | \$40.50 | <a href="#">101705T</a>      | 1          | \$56.00 | <a href="#">101705E</a> | 1          | \$48.50 | 5             | 13/32", 9/16" to 1" in 1/16" increments | 1/4                          | 1                            | 3/8                          | 3-1/16                       |
|            | <a href="#">101706</a>        | 1          | \$57.00 | <a href="#">101706T</a>      | 1          | \$88.00 | <a href="#">101706E</a> | 1          | \$78.00 | 6             | 7/8", 1-1/8", 1-7/32", 1-1/4", 1-3/8"   | 1/4                          | 1-3/8                        | 3/8                          | 3                            |
|            | <a href="#">101708</a>        | 1          | \$35.50 | <a href="#">101708T</a>      | 1          | \$49.50 | not available           |            | -       | 8             | 7/8"                                    | 11/64                        | 7/8                          | 3/8                          | 2                            |
|            | <a href="#">101709</a>        | 1          | \$46.00 | <a href="#">101709T</a>      | 1          | \$73.00 | <a href="#">101709E</a> | 1          | \$63.00 | 9             | 7/8", 1-1/8"                            | 1/4                          | 1-1/8                        | 3/8                          | 2-7/16                       |



Spiral flute step drill bit